

21 23. (AMENDED) A linear seat recliner for use in a motor vehicle having a seat with a seat back pivotally connected to a seat bottom, the seat being operable in a plurality of use positions ranging from an upright position to a fully reclined position, the linear seat recliner comprising:

a housing adapted to be coupled to one of the seat back and the seat bottom;

a latching mechanism coupled to said housing and actuatable relative said housing between a latched position and an unlatched position; and

a recliner rod including a body having at least three pairs of substantially planar diametrically opposed and parallel flats, a top flat including a plurality of teeth positioned at said first end of said body, and a stop formed from a plurality of said flats, said plurality of teeth of said recliner rod selectively engaged with said latching mechanism.

24. (AMENDED) The linear seat recliner of Claim 23 wherein said recliner rod is adapted for sliding from a first position corresponding to the fully reclined position to a second position corresponding to the upright position, said stop engaging said housing when said recliner rod is in said first position.

25. (AMENDED) The linear seat recliner of Claim 23 wherein said stop is integrally formed in said recliner rod and orthogonally extends from a bottom flat that is diametrically opposed and parallel to said top flat.

22 27. (AMENDED) The linear seat recliner of Claim 23 wherein said housing includes a guide mechanism supporting a bottom flat of said recliner rod.

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28. (AMENDED) The linear seat recliner of Claim 23 wherein said flats extend substantially between said first and second ends.

29. (AMENDED) A reclining seat assembly comprising:

a seat bottom having a side rail;

a seat back having a support rail pivotally coupled to said side rail;

a linear seat recliner including a housing secured to said support rail;

a recliner rod having a first end supported for relative linear motion within said housing and a second end having an aperture, said recliner rod having at least three pairs of substantially planar flats, a top flat having a plurality of teeth formed therein and a substantially planar bottom flat positioned parallel thereto and having a stop formed therein, said second end pivotally coupled to said side rail; and

a latching mechanism coupled to said housing and actuatable relative said housing between a latched position where said latching mechanism engages said teeth to prevent relative axial movement of said recliner rod and an unlatched position where said latching mechanism allows relative axial movement of said recliner rod.

30. (AMENDED) The reclining seat assembly of Claim 29 wherein said stop radially protrudes from said bottom flat for restricting the linear motion of said recliner rod relative to said housing.

31. (AMENDED) The reclining seat assembly of Claim 30 wherein said bottom flat is diametrically opposed and parallel to said top flat.

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32. (AMENDED) A recliner rod for a linear seat recliner for use in a seat having a seat back pivotally connected to a seat bottom, the seat operable in a plurality of use positions ranging from an upright position to a fully reclined position, the linear seat recliner having a housing coupled to one of the seat back and the seat bottom, the linear recliner mechanism also having a latching mechanism coupled to the housing, the recliner rod comprising:

a body having a first end and a second end, said body further having at least three pairs of diametrically opposed and substantially parallel flats;

a paddle integrally formed with said body at said second end;

a stop integrally formed from a bottom flat at said first end;

a plurality of teeth formed in a top flat, said plurality of teeth adapted to be engaged by the latching mechanism, said second end adapted to be coupled to the other of the seat back and the seat bottom.

33. (AMENDED) The recliner rod of Claim 32 wherein said top and bottom flats are diametrically opposed and parallel and extend from said first end to said second end.

34. (AMENDED) The recliner rod of Claim 32 wherein said stop is adapted to engage the housing to limit the travel of said recliner rod relative to the housing.

35. (AMENDED) The recliner rod of Claim 34 wherein said stop is adapted to engage the housing when the seat is in the fully reclined position.

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36. (AMENDED) A method of forming a recliner rod for a linear seat recliner for use in a seat having a seat back pivotally connected to a seat bottom, the seat being operable in a plurality of use positions ranging from an upright position to a fully reclined position, the linear seat recliner having a housing coupled to one of the seat back and the seat bottom, the linear recliner mechanism also having a latching mechanism coupled to the housing, the method comprising the steps of:

forming a recliner rod blank having a first end, a second end, and at least three pairs of flats including a bottom flat substantially parallel to a top flat;

deforming said second end of said blank to define a paddle adapted to be coupled to the other of the seat back and the seat bottom;

deforming said bottom flat at said first end of said blank to define a stop adapted to engage the housing when the seat is in its fully reclined position; and

forming a set of teeth on said top flat, said set of teeth adapted to be selectively engageable by the latching mechanism.

37. (AMENDED) The method of Claim 36 wherein said step of forming said recliner rod blank includes extruding said blank.

Please cancel Claims ~~1~~ - ~~5~~, ~~7~~, ~~8~~, ~~10~~, ~~11~~, ~~13~~, ~~14~~ and ~~16~~ - ~~22~~ without prejudice or disclaimer of the subject matter contained therein.